SOUNDARYA LAHARI VALIPE
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PROFESSIONAL SUMMARY

Skilled software engineer with 5 years of experience and an MS in Computer Science, proficient in using React.js, Node.js, Java, Spring Boot, and AWS to develop sophisticated, high-performance web solutions that enhance system efficiency and user experience.

TECHNICAL SKILLS

Programming Languages	C, Java, Python, JavaScript, HTML, CSS, Tailwind CSS, SASS, Typescript, MySQL, MongoDB
Frameworks	React.js, Spring Boot, Node.js, Express.js, Maven, Bootstrap, Material-UI, Webpack
Tools, Platforms and Technologies	AWS, REST APIs, REST, Redux, Redis, Microservices, Git, GitHub, Bitbucket, JIRA, Jenkins, Docker, SDLC, Linux, Postman, Jest, Kubernetes, Confluence, Redis, Agile, Scrum, ETL, VS Code, XML, JSON, JPA, Tomcat
Relevant coursework	Design and Analysis of Algorithms, Machine Learning, Natural Language Processing, Problem Solving

PROFESSIONAL EXPERIENCE

Graduate Teaching Assistant | University of Central Florida   01/2024 – 05/2024 | Orlando, FL
- Engineered a web application for **presenting student records** using **React.js, JavaScript, MongoDB** and **Node.js (MERN).**
- Facilitated delivery of Web Development course for **300 students** by creating **interactive modules** and providing **one-on-one** support, leading to a **20% increase** in overall student engagement and course satisfaction.

Software Engineer | Bosch Global Software Technologies   07/2020 – 07/2022 | Bengaluru, India
- Spearheaded the development of a **high-performance web application** using **React.js** for the frontend and **Spring Boot** with **Java** for the backend, integrating **AWS** services for improved **scalability** and **security**, resulting in a **30%** increase in **system resilience**.
- Enhanced **data flow** by developing robust **RESTful APIs** with **Spring Boot** on **AWS**, reducing **server response** times by **15%**.
- Increased **operational efficiency** and **user engagement** by designing and developing a dynamic **project management platform** using **React** and **Redux** for state management, leading to a **20%** improvement in productivity and a **25%** increase in user interaction.
- Elevated **MongoDB** performance with **AWS** storage solutions, increasing data **retrieval speeds** by **18%**, supporting high-volume transactions.
- Developed **robust**, **type-safe** components in **React** using **TypeScript**, enhancing **code maintainability,** and **reducing runtime errors**.
- Reduced **critical bugs** by **30%** with comprehensive testing via **Jest** and **React Testing Library**, enhancing **code quality** and **reliability**.
- Pioneered **Docker adoption**, cutting new developer onboarding time by **40%** and **standardizing deployments across all environments**.

Backend Software Engineer | Girmiti Software Pvt Ltd   03/2019 – 04/2020 | Bengaluru, India
- **Designed** and **implemented scalable RESTful APIs** and **optimized microservices** using **Java, Spring Boot, MySQL, and AWS**, significantly enhancing **data management efficiency** and **application responsiveness**, resulting in a **40%** increase in **transaction throughput**.
- Utilized **Spring Data JPA** for efficient **database access** and **data manipulation**, improving **data handling** and **transaction efficiency.**
- Implemented **Spring Boot filters** for **logging, authentication**, and **error handling**, and leveraged **Spring MVC** for dynamic, data-driven web applications, ensuring **robust, secure**, and **enhanced user experiences** and integrated **Redis** for **caching, enhancing application performance.**
- Conducted **advanced data analysis** using **SQL** and robust **ETL** processes to rectify data discrepancies, boosting customer satisfaction by **40%.**
- **Successfully deployed 75 bug fixes**, demonstrating **release engineering expertise** and **enhancing feature stability** across projects.

Backend Software Engineer Intern | Girmiti Software Pvt Ltd   07/2017 – 02/2019 | Bengaluru, India
- **Assisted in developing and maintaining Java and Spring Boot** applications, focusing on ensuring **high performance, scalability**, and **reliability** of services, contributing to a **20% reduction** in system downtime.
- Created **automation testing frameworks** using **JavaScript** and **Postman**, and architected **CI/CD pipelines** with **Jenkins** on **AWS EC2**, improving **deployment speed by 25%, reducing API errors by 50%,** and increasing **deployment reliability** by **30%.**
- **Optimized database queries in MySQL**, reducing **execution times by 30%** and improving **overall application performance**.
- **Collaborated** with **senior engineers** to implement **best practices** in **code quality** and **software development** processes, leading to a **25%** decrease in **code review time** and a **15% improvement** in overall **code quality**.

EDUCATION

University of Central Florida	**Master of Science, Computer Science	GPA- 3.91/4.0**	08/2022 – 05/2024

PROJECTS

Chat Application | **(MERN) React JS, Node JS, Express, MongoDB, HTML, JavaScript, CSS, Bootstrap, Material-UI, Socket.io**
Innovated a full-stack **chat app** with real-time communication, featuring **user authentication**, **one-to-one and group chats**, **typing indicators**, **search, notifications, and profile viewing**. Utilized **Socket.io** for real-time updates, **React** and **Material-UI** for the frontend, **Node.js** with **Express** for the backend, and **MongoDB** for data storage. Implemented **secure data handling** and a **responsive UI**.

SmartQuiz | **Java, Spring Boot, HTML, CSS, JS, MySQL, Docker, Kubernetes, Thymeleaf, Maven, JPA, Tomcat**
Created a dynamic **quiz application** with **user registration**, **real-time participation**, and **score tracking**. Utilized **Spring MVC**, **Spring Data JPA**, and **Thymeleaf** for a responsive UI. Established a scalable platform using **CI/CD**, **Docker**, and **Kubernetes,** enhancing **user engagement** and showcasing expertise in **deployment systems** and **secure coding practices**.

CERTIFICATIONS AND AWARDS

AWS Certified Developer – Associate, Awarded **"Rockstar Rookie" and "Standout Performer"** for outstanding contributions.